

Recombinant Human GSK3A, GST-tagged, Active

Cat. No. GSK3A-325H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Full-length GSK3alpha was expressed by baculovirus in <i>Sf9</i> cell using an N-terminal GST tag. MW=81kDa.
Species	Human
Source	Sf9 Cells
Description	GSK3 α is a multifunctional protein serine kinase, homologous to <i>Drosophila</i> "shaggy" (<i>zeste-white3</i>) and implicated in the control of several regulatory proteins including glycogen synthase and transcription factors (e.g., JUN). GSK3 α also plays a role in the WNT and PI3K signaling pathways. Alzheimer disease is associated with increased production and aggregation of amyloid-beta-40 and -42 peptides into plaques. GSK3 α is required for maximal production of the beta-amyloid-40 and -42 peptides generated from the amyloid precursor protein by presenilin-dependent gamma-secretase cleavage. In vitro, lithium, a GSK3 α inhibitor, blocks the production of the beta-amyloid peptides by interfering with the gamma-secretase step.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	GSK3A glycogen synthase kinase 3 alpha [Homo sapiens]
Synonyms	GSK3A; glycogen synthase kinase 3 alpha; DKFZp686D0638; Glycogen synthase kinase-3 alpha; GSK-3 alpha; EC2.7.11.26
Gene ID	2931
mRNA Refseq	NM_019884
Protein Refseq	NP_063937
UniProt ID	P49840
Chromosome Location	19q13
MIM	606784
Pathway	Chemokine signaling pathway; Signalling by NGF
Function	ATP binding; protein binding; nucleotide binding; transferase activity; glycogen synthase kinase 3 activity; protein kinase A catalytic subunit binding; tau-protein kinase activity

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